OCT 1 9 2001

1600

TECH CENTER 1600/2900

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/714,449A

DATE: 10/02/2001 RECEIVED TIME: 09:23:49

Input Set : A:\00431PHRM293.ST25.txt

OCT 1 5 2001

Output Set: N:\CRF3\10022001\I714449A.raw

TECH CENTER 1600/2900

```
3 <110> APPLICANT: Vogeli, Gabriel
         Huff, Rita
 5
         Sejlitz, Torsten
         Lind, Peter
         Slightom, Jerry
                                                       ENTERED
         Schellin, Kathleen
 8
         Bannigan, Chris
 9
10
         Ruff, Valerie
11
         Kaytes, Paul
        Wood, Linda
12
13
         Parodi, Luis
         Hiebsch, Ronald
16 <120> TITLE OF INVENTION: Novel G Protein Coupled Receptors
18 <130> FILE REFERENCE: 00431PHRM293
20 <140> CURRENT APPLICATION NUMBER: 09/714,449A
21 <141> CURRENT FILING DATE: 2000-11-16
23 <150> PRIOR APPLICATION NUMBER: 60/165,838
24 <151> PRIOR FILING DATE: 1999-11-16
26 <150> PRIOR APPLICATION NUMBER: 60/198,568
27 <151> PRIOR FILING DATE: 2000-04-20
29 <150> PRIOR APPLICATION NUMBER: 60/166,071
30 <151> PRIOR FILING DATE: 1999-11-17
32 <150> PRIOR APPLICATION NUMBER: 60/166,678
33 <151> PRIOR FILING DATE: 1999-11-19
35 <150> PRIOR APPLICATION NUMBER: 60/173,396
36 <151> PRIOR FILING DATE: 1999-12-28
38 <150> PRIOR APPLICATION NUMBER: 60/184,129
39 <151> PRIOR FILING DATE: 2000-02-22
41 <150> PRIOR APPLICATION NUMBER: 60/185,421
42 <151> PRIOR FILING DATE: 2000-02-28
44 <150> PRIOR APPLICATION NUMBER: 60/185,554
45 <151> PRIOR FILING DATE: 2000-02-28
47 <150> PRIOR APPLICATION NUMBER: 60/186,530
48 <151> PRIOR FILING DATE: 2000-03-02
50 <150> PRIOR APPLICATION NUMBER: 60/186,811
51 <151> PRIOR FILING DATE: 2000-03-03
53 <150> PRIOR APPLICATION NUMBER: 60/188,114
54 <151> PRIOR FILING DATE: 2000-03-09
56 <150> PRIOR APPLICATION NUMBER: 60/190,310
57 <151> PRIOR FILING DATE: 2000-03-17
59 <150> PRIOR APPLICATION NUMBER: 60/190,800
60 <151> PRIOR FILING DATE: 2000-03-21
62 <150> PRIOR APPLICATION NUMBER: 60/201,190
63 <151> PRIOR FILING DATE: 2000-05-02
65 <150> PRIOR APPLICATION NUMBER: 60/203,111
66 <151> PRIOR FILING DATE: 2000-05-08
```

68 <150> PRIOR APPLICATION NUMBER: 60/207,094

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/714,449A

DATE: 10/02/2001 TIME: 09:23:49

Input Set : A:\00431PHRM293.ST25.txt
Output Set: N:\CRF3\10022001\I714449A.raw

RECEIVED

69 <151> PRIOR FILING DATE: 2000-05-25 71 <160> NUMBER OF SEQ ID NOS: 190	OCT 1 5 2001
73 <170> SOFTWARE: PatentIn version 3.0	TECH CENTED 4000/0000
75 <210> SEQ ID NO: 1 76 <211> LENGTH: 1182	TECH CENTER 1600/2900
77 <211> TYPE: DNA	
78 <213> ORGANISM: Homo sapiens	
80 <400> SEQUENCE: 1	
81 gtctgggggt gggggatgct gggacagggg tcaattgcct gaagcaagtg ctctcatccc	60
83 cctagctcct gctgatctag ttggggctcc agagtgggga ggagaaaggc actttgaaac	120
85 ttctctgccc ttaccgtctt agccatcaaa ctctgagctg gagatagtga cgatgtgaca	180
87 ggaactttcc ctgggcctct ctgggccaca attcctggcc gagagaaaga ggaggaatga	240
89 ggtgagcacc ttcttcactc ctagggccat gtggtagagc tgcagtcgca cctccttctg	300
91 ccaataggca tagatgagtg ggttgagcag ggagttgccc acgccgagca gccacaggta	360
93 ccgttccage actaggtaga ggtgacacte ctggcaggee acctgcacaa tgccagtgat	420
95 aaggaagggg gtccaggata gagcaaagct cccaatgaga acagacacag tacggagagc	480
97 tttgaagtcg ctggggatcc gtggggatcg ataacctcca gccatggctc ctgcatgttc	540
99 catctttcga atctgctggc tgtgcatgga ggcaatcttg agcatgtcgc agtagaagaa	600
101 gacaaagagg agcatggctg ggaagaagcc aacgcaggag agggtcagca cgaagtgagg	
103 gtgaaataca gcaaagaagc tgcactgccc tttgtaggca gtctgctgga acatggggat	
105 tecgagtggg aggaageeaa tgaggtaaga caetaaceae ageeeggeaa tgeaggeee	
107 ggccacgaac ccactcatga tcttcaagta gcggaagggc tgcttgatgg caaggtacct	
109 gtcaaaggtg atcagcatga ccgtgaggac agaggcagct gcggaggaag tgacaaatgc	
111 catccgcagg ctgcacaggg tcttctgtgt gggccgagaa gggctggaga gctggtctgt	
113 gagtaggeca gagatggeca caccaatcaa ggtgteagee acageeagat teaaggtgaa	
115 gcagagactg acaccatcat tcttgtggat caacagcagc acagccacag ccactagtgt	
117 gttagtagca atgatgaggg aggccaggac agcaaggatc actccaaatg agaaagatga	
119 ttccatgtct cgaagtggca ggacttcact taccagggca tg	1182
122 <210> SEQ ID NO: 2	
123 <211> LENGTH: 335	
124 <212> TYPE: PRT	
125 <213> ORGANISM: Homo sapiens	
127 <400> SEQUENCE: 2	
129 Met Glu Ser Ser Phe Ser Phe Gly Val Ile Leu Ala Val Leu Ala Ser 130 1 5 10 15	
132 Leu Ile Ile Ala Thr Asn Thr Leu Val Ala Val Ala Val Leu Leu Leu 133 20 25 30	
135 Ile His Lys Asn Asp Gly Val Ser Leu Cys Phe Thr Leu Asn Leu Ala	
136 35 40 45	
138 Val Ala Asp Thr Leu Ile Gly Val Ala Ile Ser Gly Leu Leu Thr Asp	
139 50 55 60	
141 Gln Leu Ser Ser Pro Ser Arg Pro Thr Gln Lys Thr Leu Cys Ser Leu	
142 65 70 75 80	
144 Arg Met Ala Phe Val Thr Ser Ser Ala Ala Ser Val Leu Thr Val	
145 85 90 95	
147 Met Leu Ile Thr Phe Asp Arg Tyr Leu Ala Ile Lys Gln Pro Phe Arg	
148 100 105 110	
TOU TYP LEU LYS THE MET SEP GIV PHE VAL ANA GIV ANA CVS THE ANA GIV	
150 Tyr Leu Lys Ile Met Ser Gly Phe Val Ala Gly Ala Cys Ile Ala Gly 151 115 120 125	

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/714,449A

DATE: 10/02/2001 TIME: 09:23:49

	-	A:\00431PHRM293.ST25.txt N:\CRF3\10022001\1714449		RECEIVED
153 Leu Trp Leu 154 130	Val Ser Tyr	Leu Ile Gly Phe Leu Pro 135 140	Leu Gly Ile Pro	OCT 1 5 2001
156 Met Phe Glr 157 145	Gln Thr Ala 150	Tyr Lys Gly Gln Cys Ser 155	Phe Phe Ala Val 160	TECH CENTER 1600/2900
159 Phe His Pro 160	His Phe Val	Leu Thr Leu Ser Cys Val 170	Gly Phe Phe Pro 175	
163	180	Phe Phe Tyr Cys Asp Met 185	190	
166 . 195	;	Ile Arg Lys Met Glu His 200	205	
169 210		Pro Arg Thr Pro Ser Asp 215 220		
172 225	230		240	
175	245	Val Gln Val Ala Cys Gln 250	255	
178	260	Tyr Leu Trp Leu Leu Gly 265	270	•
181 275	•	_ · ·	285	
184 290		Leu Gly Val Lys Lys Val 295 300		
187 305	310	Arg Asn Cys Gly Pro Glu 315 Thr Ile Ser Ser Ser Glu	320	
190 192 <210> SEQ I	325	330	335	
193 <211> LENGT 194 <212> TYPE:	H: 657			
195 <213> ORGAN 197 <400> SEQUE	ISM: Homo sa	piens		
198 cagcgcgagc	gccttcatgg t	gacggtgtc catgcgctgg cagt gcagagcac cgccagcggc agca		60 120
202 gagcgtggcg	gtgaaggctg c	gaagegegg aegeteagge tegg gtageeaag eeaegageag eeaa	gcggca ggcgcagcga	180 240
206 ggccagcgac	tgtccccagg c	acageceag cageaggeeg geat geceactge cagecactgg tetg	agcgcg gtcgcaggcg	300 360
210 gctcagcgcc	gcgttggacg c	caggaaggt gtccaggaag ccaa	tgactt ggcatgcgcc	420 480
214 cgccagcagc	aggtggccca g	gegeateae acegageage gtga agacagatt caceaggagg aege	ctgagg ctcgagtgcg	540
218 cagtaccatc	accaggagac c	acaaagcag caccagtgcg ttgg cgccagcag cgcctcgccg gggc		600 657
221 <210> SEQ I 222 <211> LENGT	H: 217			
223 <212> TYPE: 224 <213> ORGAN 226 <400> SEQUE	ISM: Homo sa	piens		
		Glu Ala Leu Leu Ala Gly 10	Leu Leu Val Met 15	



DATE: 10/02/2001

TIME: 09:23:49

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/714,449A

Input Set : A:\00431PHRM293.ST25.txt
Output Set: N:\CRF3\10022001\I714449A.raw

231 Val Leu Ala Val Ala Leu Leu Ser Asn Ala Leu Val Leu Leu Cys Cys 232 25 20 234 Ala Tyr Ser Ala Glu Leu Arg Thr Arg Ala Ser Gly Val Leu Leu Val 40 237 Asn Leu Ser Leu Gly His Leu Leu Leu Ala Ala Leu Asp Met Pro Phe 240 Thr Leu Leu Gly Val Met Arg Gly Arg Thr Pro Ser Ala Pro Gly Ala 241 65 243 Cys Gln Val Ile Gly Phe Leu Asp Thr Phe Leu Ala Ser Asn Ala Ala 90 85 246 Leu Ser Val Ala Ala Leu Ser Ala Asp Gln Trp Leu Ala Val Gly Phe 100 105 249 Pro Leu Arg Tyr Ala Gly Arg Leu Arg Pro Arg Tyr Ala Gly Leu Leu 120 252 Leu Gly Cys Ala Trp Gly Gln Ser Leu Ala Phe Ser Gly Ala Ala Leu 130 135 140 255 Gly Cys Ser Trp Leu Gly Tyr Ser Ser Ala Phe Ala Ser Cys Ser Leu 150 155 258 Arg Leu Pro Pro Glu Pro Glu Arg Pro Arg Phe Ala Ala Phe Thr Ala 170 165 261 Thr Leu His Ala Val Gly Phe Val Leu Pro Leu Ala Val Leu Cys Leu 262 180 185 264 Thr Ser Leu Gln Val His Arg Val Ala Arg Arg His Cys Gln Arg Met 265 200 195 267 Asp Thr Val Thr Met Lys Ala Leu Ala 210 215 270 <210> SEQ ID NO: 5 271 <211> LENGTH: 222 272 <212> TYPE: DNA 273 <213> ORGANISM: Homo sapiens 275 <400> SEQUENCE: 5 276 tgtgcaggtg tgatctccat tcctttgtac atccctcaca cgctgttcga atgggatttt 60 278 ggaaaggaaa tetgtgtatt ttggeteact aetgaetate tgttatgtae ageatetgta 120 280 tataacattg tecteateag etatgatega tacetgteag teteaaatge tgtaagtega 180 282 acacattaat ttatccccct tagaagatta tgtaaatgta ta 222 285 <210> SEQ ID NO: 6 286 <211> LENGTH: 73 287 <212> TYPE: PRT 288 <213> ORGANISM: Homo sapiens 290 <400> SEQUENCE: 6 292 Cys Ala Gly Val Ile Ser Ile Pro Leu Tyr Ile Pro His Thr Leu Phe 295 Glu Trp Asp Phe Gly Lys Glu Ile Cys Val Phe Trp Leu Thr Thr Asp 20 298 Tyr Leu Leu Cys Thr Ala Ser Val Tyr Asn Ile Val Leu Ile Ser Tyr 40 301 Asp Arg Tyr Leu Ser Val Ser Asn Ala Val Ser Arg Thr His Phe Ile

304 Pro Leu Arg Arg Leu Cys Lys Cys Ile

RAW SEQUENCE LISTING DATE: 10/02/2001 PATENT APPLICATION: US/09/714,449A TIME: 09:23:49

Input Set : A:\00431PHRM293.ST25.txt
Output Set: N:\CRF3\10022001\I714449A.raw

307 <210> SEQ ID NO: 7	
308 <211> LENGTH: 507	
309 <212> TYPE: DNA	
310 <213> ORGANISM: Homo sapiens	
312 <400> SEQUENCE: 7	
313 gacgtcgaag caggtgatga tgcccagggc gtgcaccggg taggtgagat cggtgcgcgc	60
315 cageggggae agggeggtea ggageageag ceaggteeet geacaegegg ceaeegegta	120
317 acgacggcgg cgccagcgct tggagctgag cgggtacagg atccccagga agcgctccac	180
319 gctgatacag gtcatggtga ggatgctgga atacatgttt gcgtaaaagg ccacggtcac	240
321 cacgttgcaa agcagcaccc cgaataccca gtggtggcgg ttgcaatggt agtagatttg	300
323 gaaaggcaac acgctggcca gcatcaggtc cgtgacgctc aggttgatca tgaagatgac	360
325 cgacggggat ctgggcccca tgcgccggca cagcacccac agagagaaga ggttgcccgg	420
327 gatgctgacc gccgccacca gcgagtacac cacgggcagg gccaccgcga tcgccgggtt	480
329 cegeageate tgeagegteg egttgte	507
332 <210> SEQ ID NO: 8	
333 <211> LENGTH: 169	
334 <212> TYPE: PRT	
335 <213> ORGANISM: Homo sapiens	•
337 <400> SEQUENCE: 8	
339 Asp Asn Ala Thr Leu Gln Met Leu Arg Asn Pro Ala Ile Ala Val Ala	
340 1 5 10 15	
342 Leu Pro Val Val Tyr Ser Leu Val Ala Ala Val Ser Ile Pro Gly Asn	
343 20 25 . 30	
345 Leu Phe Ser Leu Trp Val Leu Cys Arg Arg Met GÎy Pro Arg Ser Pro	
346 35 40 45	
348 Ser Val Ile Phe Met Ile Asn Leu Ser Val Thr Asp Leu Met Leu Ala	
349 50 55 60	
351 Ser Val Leu Pro Phe Gln Ile Tyr Tyr His Cys Asn Arg His His Trp	
352 65 70 75 80	
354 Val Phe Gly Val Leu Cys Asn Leu Val Val Thr Val Ala Phe Tyr Ala	
355 85 90 95	
357 Asn Met Tyr Ser Ser Ile Leu Thr Met Thr Cys Ile Ser Val Glu Arg	
358 100 105 · 110	
360 Phe Leu Gly Ile Leu Tyr Pro Leu Ser Ser Lys Arg Trp Arg Arg Arg	
361 115 120 125	
363 Arg Tyr Ala Val Ala Ala Cys Ala Gly Thr Trp Leu Leu Leu Thr	
364 130 135 140	
366 Ala Leu Ser Pro Leu Ala Arg Thr Asp Leu Thr Tyr Pro Val His Ala	
367 145 150 155 160	
369 Leu Gly Ile Ile Thr Cys Phe Asp Val	
370 165	
372 <210> SEQ ID NO: 9	
373 <211> LENGTH: 270	
374 <212> TYPE: DNA	
375 <213> ORGANISM: Homo sapiens	
377 <400> SEQUENCE: 9	
378 cccatgttcc tgctcctggg cagcctcacg ttgtcggatc tgctggcagg cgccgcctac	60
380 geogeoaaca teetaetgte ggggeegete aegetgaaac tgteeceege getetggtte	120

Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/714,449A

DATE: 10/02/2001 TIME: 09:23:50

Input Set: A:\00431PHRM293.ST25.txt
Output Set: N:\CRF3\10022001\1714449A.raw

L:612 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:624 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:651 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:654 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:672 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:675 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:985 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:1029 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28
L:1032 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28
L:2026 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28